Practitioner's Docket No. 4960 (CIP)

Box Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450



## **NEW APPLICATION TRANSMITTAL**

Transmitted herewith for filing is the patent application of Inventor(s):

Wolfgang F. Ruettinger, East Windsor, New Jersey Oleg M. Ilinich, Monmouth Junction, New Jersey Robert J. Farrauto, Princeton, New Jersey

For (Title):

OPERATING CONDITIONS FOR COPPER-BASED WATER-GAS SHIFT CATALYSTS

1.	Type	of A	pplica	tion
	IVE	UI A	ppiita	

This new application is for a(n)

- ☐ Original (non-provisional)
- □ Design
- □ Divisional
- □ Continuation
- Continuation-in-part (CIP)

#### 2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)

The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

#### **Certification under 37 CFR 1.10**

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service in an envelope as "Express Mail Post Office to Addressee", mailing Label No. EV 328144878 US, addressed to: Box Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DATED:	September 17, 2003	
$D_{I}$	Deptember 17, 2003	

Signature of person mailing paper

3. Pap	ers Enclosed which are required for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application.
18	Pages of specification
3	Pages of claims
_1_	Pages of Abstract
4	Sheets of Drawing
	■ Formal □ Informal □ The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)". 37 CFR 1.84(b).
4. Add	itional papers enclosed:
	☐ Preliminary Amendment ☐ Information Disclosure Statement (37 CFR 1.98) ☐ Form PTO-1449 (PTO/SB/08A and 08B) ☐ Citations ☐ Other
5. Decl	laration or oath
	■ Enclosed ■ Executed by  (check all applicable boxes)
	<ul> <li>■ inventor(s).</li> <li>□ legal representative of inventor(s).</li> <li>37 CFR 1.42 or 1.43.</li> </ul>
	<ul> <li>□ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.</li> <li>□ This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee.</li> </ul>
	□ Not enclosed.
6. Inve	entorship Statement
The	inventorship for all the claims in this application are:
	☐ The same.
	or  □ Not the Same. An explanation, including the ownership of the various claims at the time the last claimed invention was made, □ is submitted. □ will be submitted.

7. Langua	ge				
	English Non-English  The attached tran	nslation includes a statement th	nat the translation is accurate. 37 C.F.R. 1.52(d).		
8. Assignn	nent				
0	is attached. A Separa	an assignment of the invention to ENGELHARD CORPORATION is attached. A Separate [] "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or [] FORM PTO 1595 is also attached. will follow.			
NOTE:	"If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).				
WARNING:	ARNING: A newly executed "CERTIFICATE UNDER 37 CFR 3.73(b)" must be filed when a continuation-in- part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.				
9. Certifie	d Copy				
Certified C	opy(ies) of application	(s)			
Country		Appln. No.	Filed		
Country		Appln. No.	Filed		
Соι	intry	Appln. No.	Filed		
from which	priority is claimed				

NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 CFR 1.55(a) and 1.63.

□ is (are) attached.■ will follow.

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

## 10. Fee Calculation (37 CFR 1.16)

## A. Regular application

			CLA	IMS AS FII	LED			
Numb	er filed			Number Extra		Rate	Basic F 37 CFF 1.16(a) \$ 740.0	₹
	Claims FR 1.16(c))	13	-20 =	0	X	\$18.00	\$ -0-	
	endent Claims FR 1.16(b))	4	- 3 =	1	x	\$84.00	\$ 84	.00
	ple dependent cla (37 CFR 1.16(d)				x	\$280.00	-0-	
NOTE:	☐ Amendment of ☐ Fee for extra	deleting mu claims is n		cies is enclos this time. y must be paid o	r the claims canc	elled by amendment, j deficiency. 37 CFR		piration of the
			Filing Fee Cal	culation			\$ 834.0	0
	<b>B.</b> □ Design a (\$330.		FR 1.16(f))					
			Filing Fee Cal	culation			\$	_
11. Sm	all Entity States	ment(s)						
	□ Statement(s	) that this is	s a filing by a sn	nall entity un	der 37 CFR 1	.9 and 1.27 is (are	e) attached.	
			(complete th	he following,	if applicable	)		
	☐ Status as a s	mall entity	was claimed in	prior applica	tion			
	is being claimed	d for this a	, filed on pplication under			, from which l	benefit	
	35 U.S.C.	□ 119(e) □ 120, □ 121, □ 365(c)						
	and which statu	is as a smal	l entity is still p	roper and des	sired.			
			nt in the prior ap	•	ncluded.			

\$ 834.00

12. Reques	st for International-Type Search (3 / C.F.R. 1.104	·(d))	
	Please prepare an international-type search report when national examination on the merits takes pla		the time
13. Fee Pa	yment Being Made at This Time		
0	Not Enclosed  No filing fee is to be paid at this time.  (This and the surcharge required by 37 C.F.I.)	R. 1.16(e) can be paid	subsequently).
	Enclosed		
=	Filing Fee		\$ 834.00
0	Recording assignment (\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)		\$
	Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached. (\$130.00; 37 C.F.R. 1.47 and 1.17(i)	))	\$
	For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. 1.52(d) and 1.17(k))		\$
	Processing and retention fee (\$130.00; 37 C.F.R. 1.53(d) and 1.21(l))		\$
	Fee for international-type search report (\$40.00; 37 C.F.R. 1.21(e))		\$
14. Method	d of Payment of Fees	Total fees enclosed	\$ 834.00
	arge Account No. <u>05-1070</u> in the amoun duplicate of this transmittal is attached.	t of	\$ 834.00
	ssioner is hereby authorized to charge any addition of this application to Account No. <u>05-1070</u> .	onal fees required by t	his paper and during the entire
16. Credit	any overpayment to Account No. <u>05-1070</u> .		
Reg. No. <u>3</u>	9,750	May	11/1
	2) 205-7125		Signature of Practitioner  Russell G. Lindenfeldar  (type or print name of attorney)
Engelhard C 101 Wood A P.O. Box 77 Iselin, New	Avenue	Date:	September 17, 2003

	111	corporation by reference of added pages
	арі	neck the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international plication entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES OR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED)
	=	Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed
		Number of pages added8
		Plus Added Pages for Papers Referred to in item 4 above  Number of pages added
		Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer Inventor(s) of the subject matter claimed in this application.  Number of pages added
		Plus "Assignment Cover Letter Accompanying New Application"  Number of pages added
□ Stat	temen	nt Where No Further Pages Added
		no further pages from a part of this Transmittal, then end this Transmittal with this page d check the following item)
	Th	uis transmittal ends with this page.

## ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

(37. C.F.R. § 1.78)

#### 17. Relate Back

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. § 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. § 120, 121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. § 119, 365(a) or 365(b).) For a c-l-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(complete the following, if applicable)

Amend the specification by inserting, before the first line following the title, the following sentence:

### A. 35 U.S.C. § 119(e)

NOTE: 37 C.F.R. § 1.78(a)(4) and (5):

"(4) A nonprovisional application, other than for a design patent, or an international application designating the United States of America may claim an invention disclosed in one or more prior-filed provisional applications. In order for an application to claim the benefit of one or more prior-filed provisional applications, each prior-filed provisional application must name as an inventor at least one inventor named in the later-filed application and disclose the named inventor's invention claimed in at least one claim of the later-filed application in the manner provided by the first paragraph of 35 U.S.C. 112. In addition, each prior-filed provisional application must be entitled to a filing date as set forth in § 1.53(c), and the basic filing fee set forth in § 1.16(k) must be paid within the time period set forth in § 1.53(g).

"(5)(i) Any nonprovisional application or international application designating the United States of America claiming the benefit of one or more prior-filed provisional applications must contain or be amended to contain a reference to each such prior-filed provisional application, identifying it by the provisional application number (consisting of series code and serial number).

- (ii) This reference must be submitted during the pendency of the later-filed application. If the later-filed application is an application filed under 35 U.S.C. 111(a), this reference must also be submitted within the later of four months from the actual filing date of the later-filed application or sixteen months from the filing date of the prior-filed provisional application. If the later-filed application is a nonprovisional application which entered the national stage from an international application after compliance with 35 U.S.C. 371, this reference must also be submitted within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) in the later-filed international application or sixteen months from the filing date of the prior-filed provisional application. These time periods are not extendable. Except as provided in paragraph (a)(6) of this section, the failure to timely submit the reference is considered a waiver of any benefit under 35 U.S.C. 119(e) to such prior-filed provisional application. The time periods in this paragraph do not apply if the later-filed application is:
  - (A) An application filed under 35 U.S.C. 111(a) before November 29, 2000; or
  - (B) A nonprovisional application which entered the national stage after compliance with 35 U.S.C. 371 from an international application filed under 35 U.S.C. 363 before November 29, 2000.
- (iii) If the later-filed application is a nonprovisional application, the reference required by this paragraph must be included in an application data sheet (§ 1.76), or the specification must contain or be amended to contain such reference in the first sentence following the title."

(Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed [4-1.4]

	"This application claims the benefit of U.S. Provisional Application(s) No(s).:
	APPLICATION NO(S).: FILING DATE
,	
WARNING:	than English and an English-language translation of the prior-filed provisional application and a statement that the translation is accurate were not previously filed in the prior-filed provisional application or the later-filed nonprovisional application, applicant will be notified and given a period of time within which to file an English-language translation of the non-English-language prior-filed provisional application and a statement that the translation is accurate. In a pending nonprovisional application, failure to timely reply to such a notice will result in abandonment of the application."
·	Language of Prior Filed Provisional Application
(S	upply information for each provisional whose benefit is being claimed)
The above	identified prior filed provisional application whose benefit is being claimed
	was filed in the English language
	was filed in a language other than English and an English translation along with a statement that the translation is accurate was filed in the provisional application
	was filed in a language other than English and an English translation along with a statement that the translation is accurate is filed herewith
B. 35 l	J.S.C. Sections 120, 121 and 365(c)
WARNING:	The applicable provisions for the time and manner of claiming the benefit of a prior U.S. application filing date are set forth in 37 C.F.R. § 1.78(a)(1) and (2) as follows:
	"(a)(1) A nonprovisional application or international application designating the United States of

"(a)(1) A nonprovisional application or international application designating the United States of America may claim an invention disclosed in one or more prior-filed copending nonprovisional applications or international applications designating the United States of America. In order for an application to claim the benefit of a prior-filed copending nonprovisional application or international application designating the United States of America, each prior-filed application must name as an inventor at least one inventor named in the later-filed application and disclose the named inventor's invention claimed in at least one claim of the later-filed application in the manner provided by the first paragraph of 35 U.S.C. 112. In addition, each prior-filed application must be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
  - (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(l) within the time period set forth in § 1.53(f).

(Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed [4-1.4]
—page 2 of 8)

(2)(i) Except for a continued prosecution application filed under § 1.53(d), any nonprovisional application or international application designating the United States of America claiming the benefit of one or more prior-filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain a reference to each such prior-filed application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. Cross references to other related applications may be made when appropriate (see § 1.14).

(ii) This reference must be submitted during the pendency of the later-filed application. If the later-filed application is an application filed under 35 U.S.C. 111(a), this reference must also be submitted within the later of four months from the actual filing date of the later-filed application or sixteen months from the filing date of the prior-filed application. If the later-filed application is a nonprovisional application which entered the national stage from an international application after compliance with 35 U.S.C. 371, this reference must also be submitted within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) in the later-filed international application or sixteen months from the filing date of the prior-filed application. These time periods are not extendable. Except as provided in paragraph (a)(3) of this section, the failure to timely submit the reference required by 35 U.S.C. 120 and paragraph (a)(2)(i) of this section is considered a waiver of any benefit under 35 U.S.C. 120, 121, or 365(c) to such prior-filed application. The time periods in this paragraph do not apply if the later-filed application is:

- (A) An application for a design patent;
- (B) An application filed under 35 U.S.C. 111(a) before November 29, 2000; or
- (C) A nonprovisional application which entered the national stage after compliance with 35 U.S.C. 371 from an international application filed under 35 U.S.C. 363 before November 29, 2000.
- (iii) If the later-filed application is a nonprovisional application, the reference required by this paragraph must be included in an application data sheet (§ 1.76), or the specification must contain or be amended to contain such reference in the first sentence following the title.
- (iv) The request for a continued prosecution application under § 1.53(d) is the specific reference required by 35 U.S.C. 120 to the prior-filed application. The identification of an application by application number under this section is the identification of every application assigned that application number necessary for a specific reference required by 35 U.S.C. 120 to every such application assigned that application number."

<b>XX</b> "	Thi	is application is a	,	
. [		continuation	,	
XX		continuation-in-part	·	
	]	divisional		
of cope		ing application(s)		
X	X	application numbers 10/281,635	filed on10/28/02	"
		International Applicationwhich designated the U.S."	filed on	and
NOTE:		e proper reference to a prior filed PCT application that rial number and the filing date of the PCT application		the U.S.
NOTE:	the	Where the application being transmitted adds subject e filing can be as a continuation-in-part or (2) if it is des n be as a continuation.	matter to the International Applicative ired to do so for other reasons then	ion, ther the filing
	(A	added Pages for Application Transmittal Where Benefit		d [4-1.4] e 3 of 8)

	] "The nonprovisional application design	nated above, namely application
	, filed	, claims the benefit of U.S.
	Provisional Application(s) No(s).:	
	APPLICATION NO(S).:	FILING DATE
		n
		77
C. La	anguage of Publication of International Ap	plication
. 🗆	Please indicate in the first sentence of the	application:
"The in	international application corresponding to the	instant application
	] was not	
published	d under PCT Article 21(2) in the English lang	uage."
	Where more than one reference is made a into one sentence.	bove please combine all references
18. Rei	late Back—35 U.S.C. § 119 Priority Claim f	or Prior Application
	37 C.F.R. § 1.55 Claim for foreign priority.	
	"(a) An applicant in a nonprovisional application may more pnor foreign applications under the conditions s (f), 172, and 365(a) and (b).	claim the benefit of the filing date of one or pecified in 35 U.S.C. 119(a) through (d) and
	(1)(i) In an original application filed under 35 U.S.C. 1 during the pendency of the application, and within the fitting period is not extendable. The claim must identify claimed, as well as any foreign application for the substitution of the application for which priority is claimed, or intellectual property authority), day, month paragraph does not apply to an application for a de	he later of four months from the actual filing ling date of the prior foreign application This fy the foreign application for which priority is ame subject matter and having a filing date limed, by specifying the application number, a, and year of its filing. The time period in this
	(ii) In an application that entered the national st compliance with 35 U.S.C. 371, the claim for priori application and within the time limit set forth in th	ty must be made during the pendency of the
	(2) The claim for priority and the certified copy of th	

119(b) or PCT Rule 17 must, in any event, be filed before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by the processing fee set forth in § 1.17(i), but the patent will not include the priority claim unless corrected by a certificate of correction under 35 U.S.C. 255 and § 1.323. (Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed [4-1.4]

-page 4 of 8)

The prior U.S. application(s), including any prior International Application designating the U.S., identified above in item 17B, in turn itself claim(s) foreign priority(ies) as follows:

C	oun	atry Appln. No.	Filed
The	e ce	ertified copy(ies) has (have)	
		been filed on, in prior application 0 /_ which was filed on	,
		is (are) attached.	
WAF	RNIN	IG: The certified copy of the priority application that may have been commute the International Bureau may not be relied on without any need to file a certification in the continuing application. This is so because the certification communicated by the International Bureau is placed in a fold a U.S. serial number unless the national stage is entered. Such folders are disstage is not entered. Therefore, such certified copies may not be available prosecution of a continuing application. An alternative would be to physical documents from the folders and transfer them to the continuing application. To request transfer, retrieve the folders, make suitable record notations, transfer and make a record of such copies in the Continuing Application are sufficiently documents in folders of international applications that have not stage may not be relied on. Notice of April 28, 1987 (1079 O.G. 32 to 46).	ified copy of the priority ed copy of the priority der and is not assigned sposed of if the national e if needed later in the ally remove the priority The resources required sfer the certified copies, ubstantial. Accordingly, ot entered the national
19.	Maiı	intenance of Copendency of Prior Application	
NOT	n	The PTO finds it useful if a copy of the petition filed in the prior application of response is filed with the papers constituting the filing of the continuation November 5, 1985 (1060 O.G. 27).	extending the term for application. Notice of
A.		Extension of time in prior application	
(Th	is it	tem <b>must</b> be completed and the papers filed <b>in the prior app</b> period set in the prior application has run.)	olication, if the
		A petition, fee and response extends the term in the pending until	prior application
		A copy of the petition filed in prior application is attached.	
В.		Conditional Petition for Extension of Time in Prior Applicatio	n
•		(complete this item, if previous item not applicable)	
	•	<ul> <li>A conditional petition for extension of time is being filed in application.</li> </ul>	the pending <b>prior</b>
		☐ A copy of the conditional petition filed in the prior applic	ation is attached.
•		(Added Pages for Application Transmittal Where Benefit of Prior U.S. Applicat	tion(s) Claimed [4-1.4] —page 5 of 8)

20.	Furt	er Inventorship Statement Where Benefit of Prior Application(s) Claimed
•		(complete applicable item (a), (b) and/or (c) below)
(a)		This application discloses and claims only subject matter disclosed in the prio application whose particulars are set out above and the inventor(s) in this application are
		the same.
		less than those named in the prior application. It is requested that the following inventor(s) identified for the prior application be deleted:
		(type name(s) of inventor(s) to be deleted)
(b)		This application discloses and claims additional disclosure by amendment and a new declaration or oath is being filed. With respect to the prior application the inventor(s) in this application are
		☐ the same.
		the following additional inventor(s) have been added:
		(type name(s) of inventor(s) to be deleted)
(c)		The inventorship for all the claims in this application are
		☐ the same.
		not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made
		is submitted.
		☐ will be submitted.
21. /	Aban	donment of Prior Application (if applicable)
-		Please abandon the prior application at a time while the prior application is pending, or when the petition for extension of time or to revive in that application is granted, and when this application is granted a filing date, so as to make this application copending with said prior application.
NOTE	pa rei	cording to the Notice of May 13, 1983 (103, TMOG 6-7), the filing of a continuation or continuation-in- t application is a proper response with respect to a petition for extension of time or a petition to we and should include the express abandonment of the prior application conditioned upon the nting of the petition and the granting of a filing date to the continuing application.
22. F	Petiti Amer	on for Suspension of Prosecution for the Time Necessary to File and
WAR	NING:	"The claims of a new application may be finally rejected in the first Office action in those situations where (A) the new application is a continuing application of, or a substitute for, an earlier application, and (B) all the claims of the new application (1) are drawn to the same invention claimed in the earlier application, and (2) would have been properly finally rejected on the grounds of art of record in the next Office action if they had been entered in the earlier application." M.P.E.P. § 706.07(b), 7th ed.
NOTE	and	ere it is possible that the claims on file will give rise to a first action final for this continuation application for some reason an amendment cannot be filed promptly (e.g., experimental data is being gathered) ay be desirable to file a petition for suspension of prosecution for the time necessary.
		(check the next item, if applicable)
	There	is provided herewith a Petition To Suspend Prosecution for the Time Necessary an Amendment (New Application Filed Concurrently)
		ded Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed [4-1.4]

23. Small	Entity (37 C.F.R. § 1.28(a))
	Applicant has established small entity status by the filing of a statement in parent application/
	A copy of the statement previously filed is included.
WARNING:	See 37 C.F.R. § 1.28(a).
WARNING:	"Small entity status must not be established when the person or persons signing the statement can unequivocally make the required self-certification." M.P.E.P. § 509.03, 7th ed. (emphasis added).
24. NOTIF	FICATION IN PARENT APPLICATION OF THIS FILING
	A notification of the filing of this
•	(check one of the following)
. (	☐ continuation
[	☐ continuation-in-part
. (	☐ divisional
is being file U.S.C. § 12	d in the parent application, from which this application claims priority under 35 20.

# ADDED PAGE(S) FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED

Added page \_\_\_\_\_